Technics

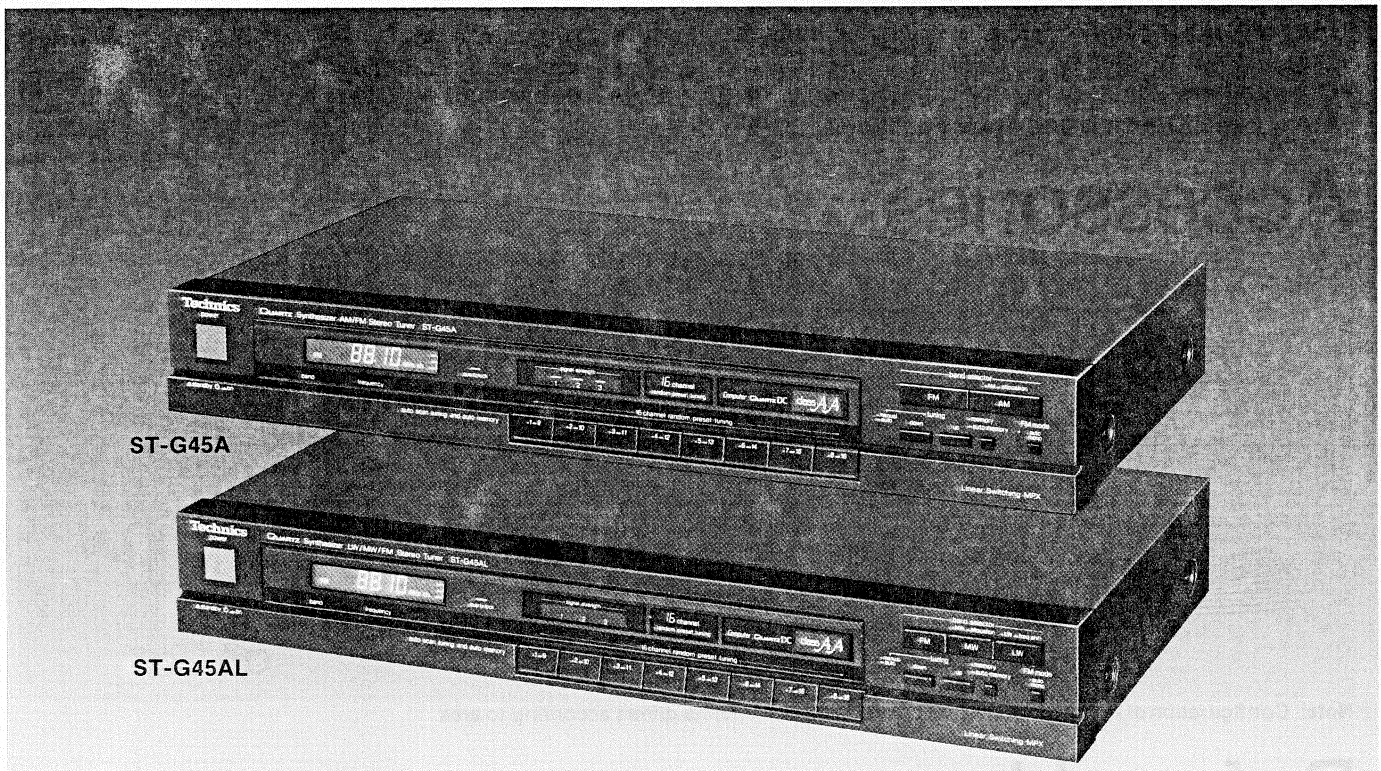
QUARTZ Synthesizer AM/FM Stereo Tuner

ST-G45A

QUARTZ Synthesizer LW/MW/FM Stereo Tuner

ST-G45AL

OPERATING INSTRUCTIONS



• Cabinet colour differs according to area.

Notes:

- Specifications differ according to the area code.
- The "EK" area code, for example, indicates United Kingdom specifications.
- The "EK" indication is shown on the packing case and serial number tag.

Before operating this unit, please read these instructions completely.

ENGLISH

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world.
We feel certain you will get maximum enjoyment from this new addition to your home.
Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

These Operating Instructions are applicable to models ST-G45A and ST-G45AL. The functions which differ for the two models are indicated in the Operating Instructions.

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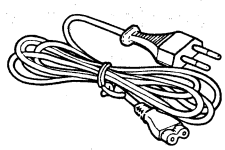
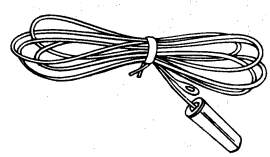
Accessories (Refer to page 4.)

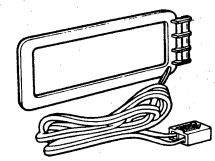
- AC power supply cord 1



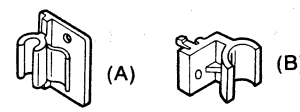
- FM indoor antenna 1



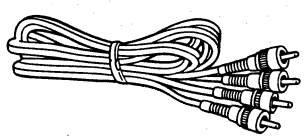
- AM loop antenna 1



- AM antenna holders 2



- Stereo connection cable 1



- Attachment plug 1
(For United Kingdom only)

- Screws 2

Note: Configuration of AC power supply cord and FM indoor antenna differs according to area.

Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.
Use a minus (−) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.
(If the power supply in your area is 117 V or 120 V, set to the "127 V" position.)
Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

For United Kingdom ("EK" area code model only)

The "EK" indication is shown on the name plate.

Important

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE:	NEUTRAL
BROWN:	LIVE

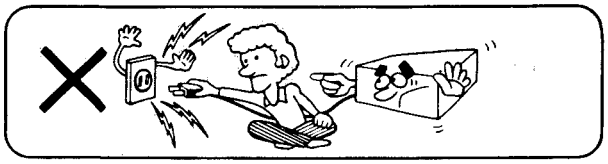
As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

THIS TUNER/RECEIVER IS CAPABLE OF RECEIVING THE NEW AM STEREO BROADCASTS FROM THE AM BAND RADIO STATIONS. HOWEVER LIKE MANY TUNERS AND RECEIVERS CURRENTLY AVAILABLE ON THE MARKET IT WILL REPRODUCE THIS AM STEREO SIGNAL ONLY IN AM MONO, WHICH, IN EFFECT, IS OF NO LESSER QUALITY THAN YOUR EXISTING AM MONO TUNER/RECEIVER.

Suggestions for Safety

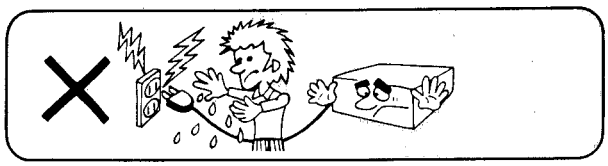
■ Use a standard electrical AC wall outlet

1. **Use from an AC power source of high voltage, such as for air conditioners, is very dangerous.**
   Be extremely careful not to make a connection to the electrical outlet for a large air conditioner or central-heating unit which uses high voltage, because there is the possibility of fire.
2. **A DC power source cannot be used.**
   Be sure to check the power source carefully, especially on a ship or other place where DC is used.



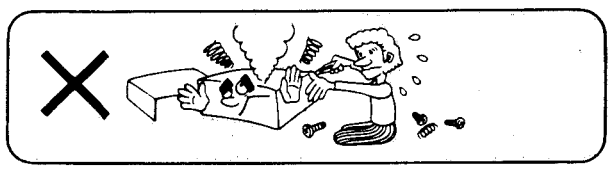
■ Connection and removal of the power cord plug

1. **Wet hands are dangerous.**
   A dangerous electric shock may result if the plug is touched by wet hands.
2. **Don't pull the power cord.**
   Always grasp the plug; never pull the cord itself.



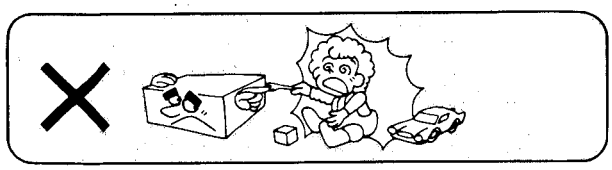
■ Never attempt to repair or reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidently touched.



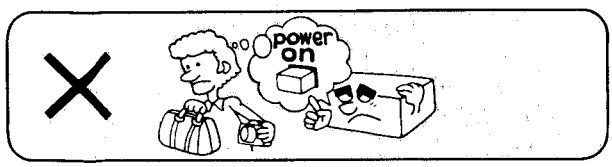
■ For families with children

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted through the ventilation holes, etc. of this unit.



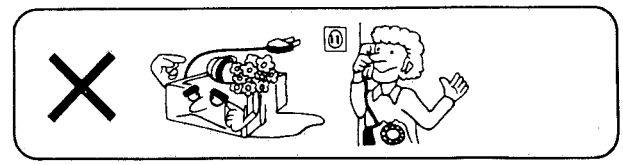
■ Turn off after use

If the unit is left for a long time with the power on, this will not only shorten its useful operation life, but may also cause other unexpected trouble.



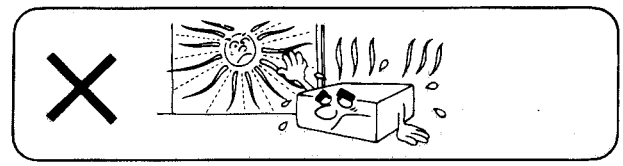
■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.



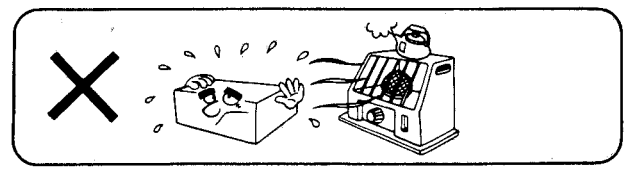
■ Place the unit where it will be well ventilated, and away from direct sunlight

Place this unit at least 10 cm (4") away from wall surfaces, etc., and away from direct sunlight.



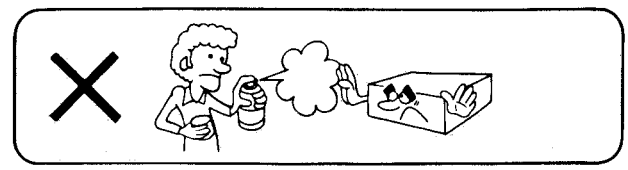
■ Keep the unit away from heaters, etc.

Heat can damage the external surfaces as well as internal circuits and components.



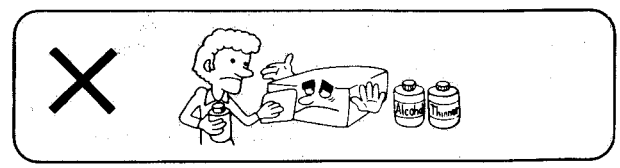
■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.



■ Never use alcohol or paint thinner

These and similar chemicals should never be used, because they may damage the finish.



■ If trouble occurs

If, during operation, the sound is interrupted or indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

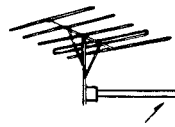
Connections

The indication AM used here includes both MW and LW for Model ST-G45AL.

ENGLISH

FM outdoor antenna (option)

(Necessary in mountainous regions, inside reinforced-concrete buildings, etc.)

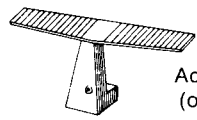


75-ohm coaxial cable (option)

FM indoor antenna (option)

(Technics FM wing antenna SH-F101)

This indoor antenna reduces the effects of multipath distortion and external noise sources (car engines, etc.). Use in areas where the transmission signal is strong (transmission site is in direct view).



Adaptor (option)

FM indoor antenna (included)

- Attach to a wall (using tack or tape) facing in direction of best reception.
- Tack should not contact internal antenna wire.
- For best reception sound quality, an FM outdoor antenna is recommended.
- Disconnect this antenna if an FM outdoor antenna is installed.

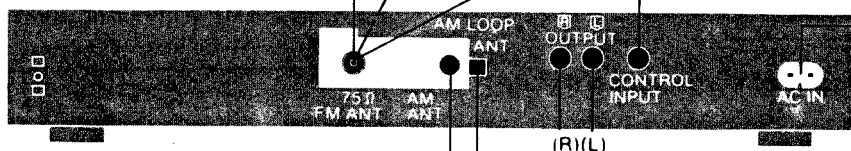
Tack or tape

For United Kingdom only:

Use the attachment plug (included).

Control input terminal (CONTROL INPUT):

This terminal is used for the connection of a timer for the purpose of controlling the tuner by means of an external control signal.



Household AC outlet

AC power supply cord (included)

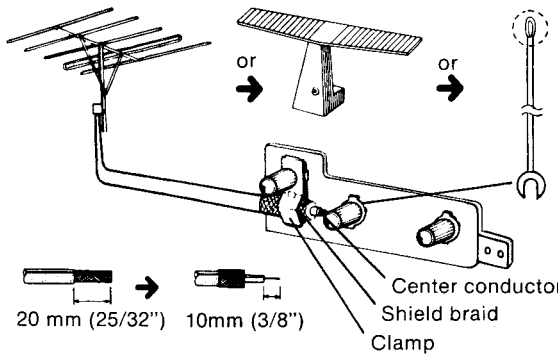
Note:

The configuration of the AC outlet and AC power supply cord differs according to area.

Stereo connection cable (included)

(L) To tuner input terminals
(R) of the amplifier

If FM antenna terminal is as shown below:



Be sure the shield braid contacts the clamp.

AM loop antenna (included)

If this antenna is not properly installed, AM broadcasts will not be received.
Be sure to connect the AM loop antenna even when an outdoor antenna is used.

Vinyl-covered wire (option)

5 ~ 12 m (16 ~ 40 ft.)

AM outdoor antenna (option)

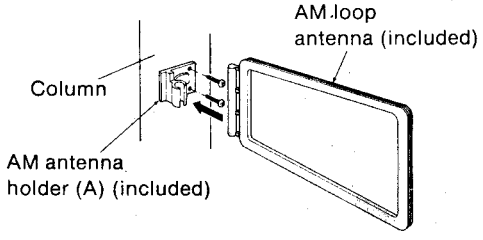
(Necessary in mountainous regions, inside reinforced-concrete buildings, etc.)
Use 5 ~ 12 m (16 ~ 40 ft.) of vinyl-covered wire horizontally at the window.

Installation of the AM loop antenna

1. Pay attention to the following points when attaching the antenna.
   - Do not attach it horizontally (to do so would impair reception).
   - Do not attach it close to metal surfaces (to do so would result in noise).
   - Do not attach it close to power cords, speaker wires, etc. (to do so would result in noise).
   - Do not attach it close to a tape deck (when the tape deck is being used, chirping or beeping sounds may be received).
2. Connect the AM loop antenna to the AM antenna terminals located on the rear panel of the unit.

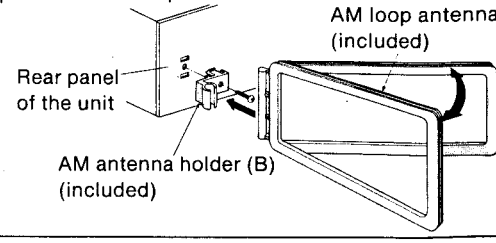
When attaching the antenna to a column, rack or wall.

Find the height and direction of the antenna where reception is best and then fix it vertically to the wall, rack, etc.



When attaching the antenna to the unit

This type of installation may cause impaired reception or result in signal noise. If possible, attach the antenna to the rack, a wall, or a column.
Move the antenna toward the right or left to find the point of best reception.



Front Panel Controls and Their Functions

The indication AM used here includes both MW and LW for Model ST-G45AL.

ENGLISH

Power "stand by ⏻, on" switch

This switch turns on and off the secondary circuit power only. The unit is in the "stand-by" condition when this switch is set to the "stand by ⏻" position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

Memory indicator (memo)

This indicator illuminates when the memory button is pressed.

FM stereo indicator (stereo)

This indicator automatically illuminates when an FM stereo broadcast is being received.

Note:
It will not illuminate if the FM mode selector is set to the "mono" position.

ST-G45A

FM | AM

Band selectors (band selector)

FM:
Press this button to listen to an FM broadcast.

AM:
Press this button to listen to an AM broadcast.

allocation:
This button is also used to select a frequency step of either 9 kHz or 10 kHz.
When the AM button is pressed for about 4 seconds, the AM frequency step will change to 10 kHz per step.
(This step is set to 9 kHz before shipment.)
Set to the appropriate position for your locality.
In order to return to the original frequency indication, press this button for about 4 seconds again.

ST-G45AL

FM | MW | LW

Band selectors (band selector)

FM:
Press this button to listen to an FM broadcast.

MW:
Press this button to listen to an MW broadcast.

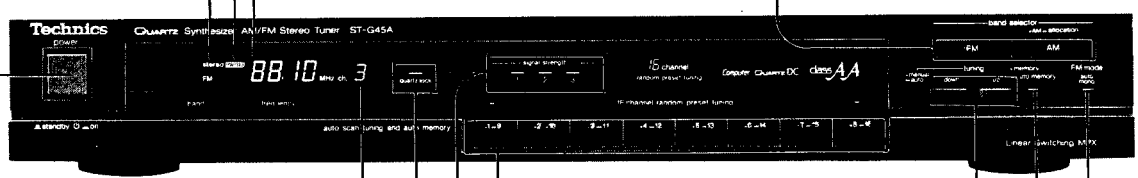
allocation:
This button is also used to select a frequency step of either 9 kHz or 10 kHz.
When the MW button is pressed for about 4 seconds, the MW frequency step will change to 10 kHz per step.
(This step is set to 9 kHz before shipment.)
Set to the appropriate position for your locality.
In order to return to the original frequency indication, press this button for about 4 seconds again.

LW:
Press this button to listen to an LW broadcast.

freq shift:
When the LW button is pressed for about 2 seconds during reception of an LW broadcast, the LW frequency will decrease by about 2 kHz.
So, for example, to receive 153 kHz, tune to 155 kHz, and then press this button.
In order to return to the original frequency indication, press this button for about 2 seconds again.

Digital frequency display

The reception frequency of the FM or AM broadcast selected by using the manual tuning buttons or the preset tuning buttons is indicated by a digital-type display.



ST-G45A

Channel display

The channel number selected by the preset tuning buttons is displayed.

Quartz-lock indicator (quartz lock)

This indicator illuminates when tuned precisely to an FM or AM station.

Signal-strength indicators (signal strength)

These indicators show the relative strength of broadcast signals being received by the antenna. The best condition for reception, for FM and AM, is when the indicators illuminate completely to the top.

Tuning buttons (tuning)

These buttons are used for tuning to the desired broadcast station.

Memory button (memory)

This button is used when preset memory setting of the preset-tuning buttons is made.

FM mode selector (FM mode)

This unit automatically switches into the stereo mode when a stereo broadcast is received. Press this button to listen in the monaural mode. The stereo indicator will not illuminate in the monaural mode.

Preset-tuning buttons (1~16) (16 channel random preset tuning)

These buttons are used to preset FM and AM broadcast frequencies into the memory of this unit, and are also pressed to select the desired preset frequencies.

Note:
Refer to pages 6 and 7 for information concerning preset memory.

Memory Presettings

The indication AM used here includes both MW and LW for Model ST-G45AL.

Important!

This antenna must be installed to receive AM broadcasts.

AM loop antenna (included)

With this unit you may preset as many as 16 radio broadcast stations: FM/AM random presetting. After broadcast stations have been preset as described below, any desired station can be quickly and easily selected by simply touching one button.

Notes:

1. For automatic presetting in areas where there are less than 16 FM stations, the remaining channels (through channel 16) will be left empty. The empty channels can be filled by using manual memory presetting.
2. If a new broadcasting station is preset into a channel, the broadcasting station which was previously entered in that channel will be automatically erased. Then reset the memory.
3. For AM broadcasts with extremely strong signal transmissions, the frequency memorized may be slightly off of the correct frequency. If this occurs, use the manual control to memorize.

Automatic memory presetting

ST-G45A The FM broadcasting stations and AM broadcasting stations will be automatically preset to "channels" 1 through 16 for FM and 9 through 16 for AM, respectively.

ST-G45AL The FM broadcasting stations, MW broadcasting stations, and LW broadcasting stations will be automatically preset in "channels" 1 through 16 for FM, 9 through 16 for MW, and 13 through 16 for LW, respectively.

Note: When AM is automatically preset, the FM stations on "channels" 9 through 16 will be replaced by the new AM stations.

1 "on" (⏻→ ⏻)

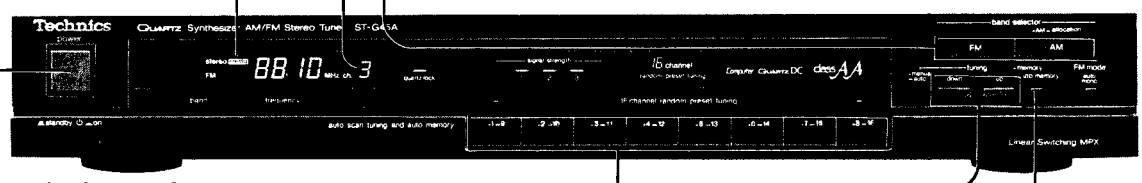
2 **ST-G45A** **"FM":** for FM broadcasts **"AM":** for AM broadcasts

ST-G45AL **"FM":** for FM broadcasts **"MW":** for MW broadcasts **"LW":** for LW broadcasts

Before presetting the broadcasting stations, press to select the appropriate frequency step for your locality. (Refer to page 5.)

Channel display

Memory indicator



ST-G45A

3 **Set to the lowest frequency.**

Tuning Press the left button to change the frequency downward, and press the right button to change the frequency upward.

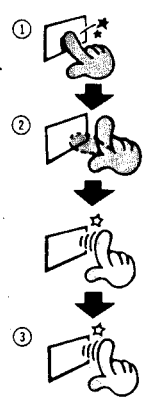
ST-G45A
- **FM: 87.50 MHz** (0.05 MHz step)
- **AM: 522 kHz** (9 kHz step) **or** **530 kHz** (10 kHz step) (For Europe, South Africa and Australia) **531 kHz** (9 kHz step) **or** **530 kHz** (10 kHz step) (For Saudi Arabia and others)

ST-G45AL
- **FM: 87.50 MHz** (0.05 MHz step)
- **MW: 522 kHz** (9 kHz step) **or** **530 kHz** (10 kHz step)
- **LW: 153 kHz** (9 kHz step: -2kHz shift) **or 155 kHz** (9 kHz step)

① Press the button and hold slightly (frequency will change continuously).

② Release it when approaching the above exact frequency, and then press the button again momentarily (frequency change will stop).

③ Press the button momentarily (frequency will change each time the button is pressed), and tune to one of the above frequencies.



4 **Press. When the frequency indication begins to change, release.**

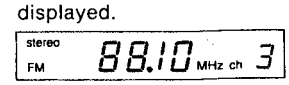
The frequency will change upward, and the automatic presetting will begin with the next broadcasting station. It will continue to preset the following consecutive broadcast stations.

5 **Confirm the names (call signs, etc.) of the broadcasting stations which are preset to each channel, and enter them on the file sheet (page 8).**

To check the front channels (CH 1~ 8):

Press momentarily.

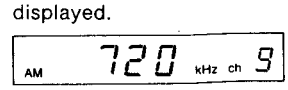
Frequency stored in the memory and channel number are displayed.



To check the back channels (CH 9~ 16):

Press slightly longer.

Frequency stored in the memory and channel number are displayed.



■ "Most-recent" memory

The most-recent memory is a system by which the unit "remembers" the FM or AM broadcast station last heard when this unit is turned off, and automatically tunes to that station the next time the power is turned on.

■ "Back-up" memory

This is the function which preserves the preset memory and most-recent memory functions. In the event of a power failure, or if the power cord of the tuner is disconnected from the electric outlet, the back-up memory will preserve the preset memory and most-recent memory functions for as long as approximately one week.

■ To Prevent Erasing the Memory

If the power supply is interrupted for one week or longer, the memory settings will be erased.
For example:
1) If the power cord is disconnected from the electric outlet,
2) If an audio timer is used and the timer does not operate the tuner for a week or longer,
3) If a power failure occurs, etc.

If any of the above occurs, the memory will have to be reset.

The memory in this unit is maintained by a capacitor. If the power supply is interrupted for a week or longer, set the power switch of the tuner to the "on" position for thirty minutes or more in order to recharge the capacitor. Then reprogram the memory (pages 6 and 7).

ENGLISH

Manual memory presetting

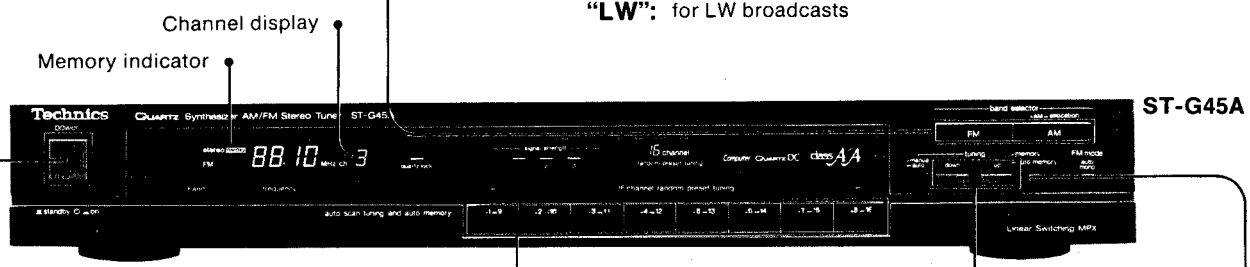
Stations can be freely preset to any desired channel.

1 "on" (■→ ▲)

2 ST-G45A "FM": for FM broadcasts "AM": for AM broadcasts

ST-G45AL "FM": for FM broadcasts "MW": for MW broadcasts "LW": for LW broadcasts

Before presetting the broadcasting stations, press to select the appropriate frequency step for your locality. (Refer to page 5.)



5 While the memory indicator is illuminated, press the button of the desired channel.

When the button is pressed, the memory indicator illumination will stop, and the presetting is complete.

- **To preset channels 1 through 8:** Press the button momentarily, and then release. (Preset channel number is displayed on the channel display.)
- **To preset channels 9 through 16:** Press the button slightly longer, and then release. (Preset channel number is displayed on the channel display.)

If the memory indication illumination stops before you press the button, once again repeat step ④ and then step ⑤.

3 Press the appropriate tuning button to tune to the desired broadcast.

Tuning

Press the left button to change the frequency downward, and press the right button to change the frequency upward.

- **Automatic tuning** Press the button. When the frequency indication begins to change, release the button (a broadcasting station will be selected automatically). Repeat this operation until the desired station is found.
- **Manual tuning** Press the button momentarily and tune to the desired station. The frequency will change each time the button is pressed.

4 Press momentarily, and then release.

(The memory indicator will illuminate for approximately 4 seconds.)

Note:

If the button is pressed continuously, the frequency will begin to change, and the memory will be preset automatically. To stop the automatic memory presetting, once again press either the "up" button or the "down" button.

6 Enter the name (call sign, etc.) of the preset broadcasting station on the station memory file sheet (page 8).

This completes the procedures for presetting radio broadcast frequencies. The other preset-tuning buttons can be preset in the same way by following steps ② through ⑤.

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To Listen to Radio Broadcasts

Have you completed the memory presetting (page 6 and 7)?

Important!

AM loop antenna (included)

This antenna must be installed to receive AM broadcasts.

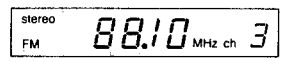
1 Turn the amplifier on, and prepare it for listening to radio broadcasts.

2 "on" (■→ ▬)

3 Press the desired preset-tuning button.

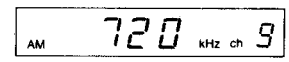
- **To select the front channels (CH 1~8):**

Press momentarily. ➡ Frequency stored in the memory and channel number are displayed.



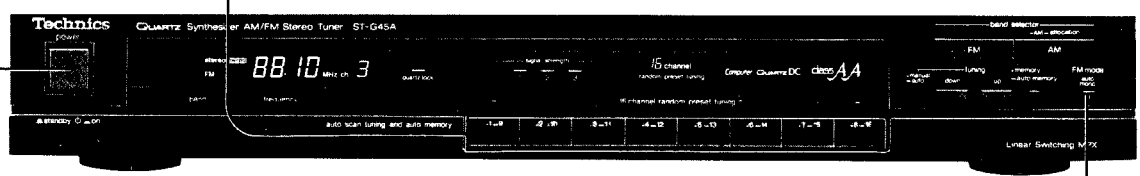
- **To select the back channels (CH 9~16):**

Press slightly longer ➡ Frequency stored in the memory and channel number are displayed.



Station selection by using the tuning buttons:

Follow steps 2, 3 of "Memory Presettings" on page 7.



ST-G45A

FM mode selector (FM mode)

If the broadcast signal is weak, or if there is a large amount of interference in a stereo broadcast, set to the "mono" position.

Note that the FM stereo indicator will not illuminate in this position.

Station Memory File Sheet

CH. 1	CH. 2	CH. 3	CH. 4	CH. 5	CH. 6	CH. 7	CH. 8
CH. 9	**CH. 10**	**CH. 11**	**CH. 12**	**CH. 13**	**CH. 14**	**CH. 15**	**CH. 16**

Maintenance

To clean, use a soft dry cloth.
If the surfaces are extremely dirty, use a soft cloth, dipped into a soap and water solution or a weak detergent solution.
Wring the cloth well before wiping the unit.

Wipe once again with a soft dry cloth.
Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit.
Such chemicals may damage the finish of your unit.

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Technical Specifications

(DIN 45 500)

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz
Sensitivity	1.5 μV (IHF, usable)
S/N 30 dB	1.3 μV (75Ω)
S/N 26 dB	1.2 μV (75Ω)
S/N 20 dB	0.9 μV (75Ω)
IHF 46 dB stereo quieting sensitivity	28 μV/75Ω
Total harmonic distortion	
MONO (normal)	0.05%
STEREO (normal)	0.1%
S/N	
MONO	72 dB (80 dB, IHF)
STEREO	65 dB (73 dB, IHF)
Frequency response	4 Hz~18 kHz, +0.5 dB~−1.5 dB
Alternate channel selectivity	
normal ±400 kHz	65 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	55 dB
IF rejection at 98 MHz	90 dB
Spurious response rejection at 98 MHz	80 dB
AM suppression	55 dB
Stereo separation	
1 kHz	50 dB
10 kHz	40 dB
Carrier leak	
19 kHz	−55 dB (−60 dB, IHF)
38 kHz	−40 dB (−45 dB, IHF)
Channel balance (250 Hz~6,300 Hz)	±1.0 dB
Limiting point	0.85 μV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminals	75Ω (unbalanced)

■ AM TUNER SECTION (ST-G45A)

Frequency range	
(For Europe, South Africa and Australia)	
	522 kHz~1611 kHz (9 kHz-step)
	530 kHz~1620 kHz (10 kHz-step)
(For Saudi Arabia and others)	
	531 kHz~1602 kHz (9 kHz-step)
	530 kHz~1600 kHz (10 kHz-step)
Sensitivity (S/N 20 dB)	20 μV, 300 μV/m
Selectivity at 999 kHz (±9 kHz)	50 dB
Image rejection at 999 kHz	40 dB
IF rejection at 999 kHz	60 dB

■ AM TUNER SECTION (ST-G45AL)

Frequency range	
MW	522 kHz~1611 kHz (9 kHz-step)
	530 kHz~1620 kHz (10 kHz-step)
LW	155 kHz~353 kHz (9 kHz-step)
	153 kHz~351 kHz (−2 kHz shift)
Sensitivity (S/N 20 dB)	
MW	20 μV, 300 μV/m
LW	50 μV
Selectivity (±9 kHz)	
MW (at 999 kHz)	50 dB
LW (at 254 kHz)	50 dB
Image rejection	
MW (at 999 kHz)	40 dB
LW (at 254 kHz)	40 dB
IF rejection	
MW (at 999 kHz)	60 dB
LW (at 254 kHz)	35 dB

■ GENERAL

Output voltage	0.3V (0.6V IHF)
Power consumption	9W
Power supply	
For United Kingdom and Australia	AC 50 Hz/60 Hz, 240V
For continental Europe	AC 50 Hz/60 Hz, 220V
For others	AC 50 Hz/60 Hz, 110V/127V/220V/240V
Dimensions (W×H×D)	430 × 64 × 241 mm
	(16-30/32" × 2-17/32" × 9-1/2")
Weight	2.2 kg
	(4.84 lb.)

Notes:
- Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).
- Specifications are subject to change without notice. Weight and dimensions shown are approximate.

Troubleshooting Guide

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Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized service center (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
While listening to FM broadcasts		
An unusual hissing noise is heard when listening to the broadcast in stereo, but not heard when listening monaurally.	A slight noise may be heard because the method used for modulation of FM stereo broadcasts is different than that used for monaural broadcasts.	• Try reducing the treble sound by turning the treble tone control of the amplifier. • Set the FM mode selector to the mono position. (Note that the broadcast will then be heard as monaural sound.)
Noise is excessive in both stereo and monaural broadcasts.	Poor location and/or direction of the antenna. Transmitting station is too far away.	• Try changing the location, height and/or direction of the antenna. • If an indoor antenna is being used, change to an outdoor antenna. • Try using an antenna with more elements.
The FM stereo indicator or quartz lock indicator flickers, without completely illuminating.	Poor location and/or direction of the antenna. Transmitting station is too far away.	• Try changing the location, height and/or direction of the antenna. • If an indoor antenna is being used, change to an outdoor antenna. • Try using an antenna with more elements.
Excessive distortion in the sound of stereo broadcasts.	Nearby building or mountain. (Multi-path distortion is being caused by the mutual interference of broadcast signals received directly from the transmitting station (direct waves) and signals being reflected from nearby buildings or mountains (reflected waves).)	
Station selection cannot be made by using the preset-tuning buttons.	The preset-tuning buttons of this unit have not been preset.	• Make the presettings.
	The charge of the capacitor which maintains the "back-up" memory is exhausted.	• Set the power switch to the "on" position for 30 minutes or more to perform the charging, and then make the memory presetting again.
While listening to AM broadcasts		
An unusual "beat" sound is heard.	Unit is being used at the same time as the television set.	• Turn off television set, or use this unit farther away from it.
A low-pitched "hum" sound is heard when the broadcast is tuned.	The AM loop antenna connection wires are too close to the power cord.	• Place the antenna connection wires and the power cord farther apart.
	The power supply frequency from the power cord is modulated and heard from the speakers.	• Try reversing the connection of the power cord plug. • Install a special outdoor antenna.
A strange hissing noise is produced continuously or intermittently.	Caused by the "discharge phenomenon" and the "oscillation phenomenon" of electric appliances (such as fluorescent lights, TV, small series-type motors, rectification equipment, etc.).	• Try placing this unit farther away from such equipment. • Install noise-prevention equipment on this unit or on the electric appliance.
Station selection cannot be made by using the preset-tuning buttons.	The preset-tuning buttons of this unit have not been preset.	• Make the presettings.
	The charge of the capacitor which maintains the "back-up" memory is exhausted.	• Set the power switch to the "on" position for 30 minutes or more to perform the charging, and then make the memory presetting again.